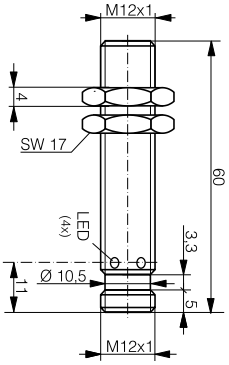
CONTRINEX

INDUCTIVE SENSOR
BASIC
DW-AS-623-M12-1202

HOUSING	OPERATING DISTANCE	MOUNTING
M12	4 mm	Embeddable

- ✓ Extended Temperature
- ✓ Exceptional price-performance ratio
- ✓ Excellent accuracy
- ✓ IP 67





DETECTION DATA

Rated operating distance (S_n)	4 mm
Assured operating distance (S_a)	≤ (0.81 x S_n) mm
Repeat accuracy	≤ 0.2 mm
Hysteresis	≤ 20% S_r
Temperature drift	≤ 10% S_r
Standard target	12 x 12 x 1 mm³, FE360

Note: $0.9S_n \leq S_r \leq 1.1S_n$.

INTERFACE

Indicator LED, yellow	Sensing state ($0 \leq s \leq 0.8\ S_r$)
Indicator LED, yellow, blinking	Sensing state ($0.8\ S_r < s \leq S_r$)
IO-Link	✖

ELECTRICAL DATA

Supply voltage range (U_B)	10...30 VDC
Residual ripple	≤ 20% U_B
Output current	≤ 200 mA
Output voltage drop	≤ 2.0 VDC
Power consumption (no-load)	≤ 10 mA
Residual current	≤ 0.1 mA
Switching frequency	≤ 2'500 Hz
Short-circuit protection	✓
Voltage reversal protection	✓
Cable length max.	≤ 300 m

MECHANICAL DATA

Mounting	Embeddable
Housing material	Nickel-plated brass
Sensing face material	PBTP
Max tightening torque	10 Nm (6 Nm first 10 mm)
Ambient operating temperature	-40...+85°C[1]
Enclosure rating	IP 67
Shock and vibration	IEC 60947-5-2

[1]Maximum temperature according to UL: 70°C.

Note: all data measured according to IEC 60947-5-2 standard with U_B= 20…30VDC, T_A= 23°C ± 5°C.

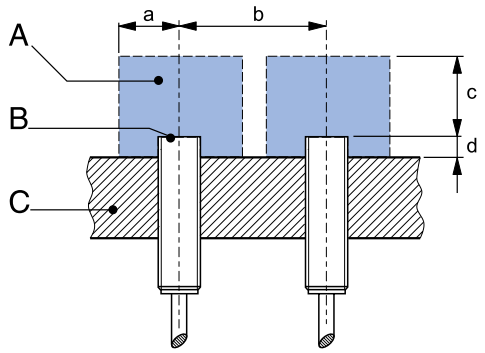
CONTRINEX AG Industrial Electronics
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CORRECTION FACTORS

Steel FE 360	**1**	Copper	**0.4**	Aluminum	**0.44**	Brass	**0.54**	Stainless S. V2A 1 / 2 mm	**0.8**

Note: the operating distance of the sensor must be multiplied by the correction factor of the material. For example, the operating distance on Aluminum is $S_{n,\,Al} = S_n \times CF_{Al}$. In case of embeddable mounting, the distance is multiplied by the additional correction factor of the support, thus $S_{n,\,Al} = S_n \times CF_{Al} \times CF_{emb,\,Al}$.

INSTALLATION CONDITIONS



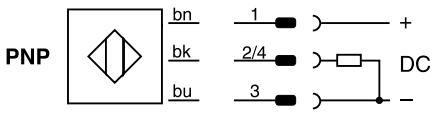
A : metal free zone
B : sensing face
C : support

a : 10 mm
b : 24 mm
c : 12 mm

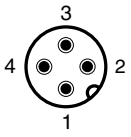
d : steel 0 mm

Note: additional installation information can be found in the glossary of the Contrinex General Catalog.

WIRING DIAGRAM



PIN ASSIGNMENT



M12

AVAILABLE TYPES

Part number	Part reference	Polarity	Connection	Output on pin 2	Output on pin 4 / bk	Weight
320-820-995	DW-AS-623-M12-1202	PNP	M12 4-pin	-	Normally open (NO)	36.5 g

Note: part reference may include additional suffix to indicate a revision version or special version. Further information is available on request.

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